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(1) A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

[A] Rs. 375

[B] Rs. 400

[C] Rs. 600

[D] Rs. 800

Answer : [B]

Explanation:

$$\text{C's 1 day's work} = \frac{1}{3} - \left(\frac{1}{6} + \frac{1}{8} \right) = \frac{1}{3} - \frac{7}{24} = \frac{1}{24}$$

$$\text{A's wages : B's wages : C's wages} = \frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1.$$

$$\therefore \text{C's share (for 3 days)} = \text{Rs.} \left(3 \times \frac{1}{24} \times 3200 \right) = \text{Rs.} 400.$$

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(2) A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in:

[A]
 $\frac{1}{24}$ day

[B]
 $\frac{7}{24}$ day

[C]
 $3\frac{3}{7}$ days

[D] 4 days

Answer : [C]

Explanation:

Formula: If A can do a piece of work in n days, then A's 1 day's work = $\frac{1}{n}$.

$$\text{(A + B + C)'s 1 day's work} = \left(\frac{1}{24} + \frac{1}{6} + \frac{1}{12} \right) = \frac{7}{24}$$

$$\text{So, all the three together will complete the job in } \left(\frac{24}{7} \right) \text{ days} = 3\frac{3}{7} \text{ days.}$$

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(3) A and B together can do a piece of work in 30 days. A having worked for 16 days, B finishes the remaining work alone in 44 days. In how many days shall B finish the whole work alone?

[A] 30 days

[B] 40 days

[C] 60 days

[D] 70 days

Answer : [C]

Explanation:

Let A's 1 day's work = x and B's 1 day's work = y .

$$\text{Then, } x + y = \frac{1}{30} \text{ and } 16x + 44y = 1.$$

$$\text{Solving these two equations, we get: } x = \frac{1}{60} \text{ and } y = \frac{1}{60}$$

$$\therefore \text{B's 1 day's work} = \frac{1}{60}.$$

Hence, B alone shall finish the whole work in 60 days.

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(4) A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?

[A] Rs. 1090

[B] Rs. 1160

[C] Rs. 1190

[D] Rs. 1202

Answer : [C]

Explanation:

$$\text{S.P.} = 85\% \text{ of Rs. } 1400 = \text{Rs. } \left(\frac{85}{100} \times 1400 \right) = \text{Rs. } 1190$$

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(5) When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15%?

[A] Rs. 21,000

[B] Rs. 22,500

[C] Rs. 25,300

[D] Rs. 25,800

Answer : [C]

Explanation:

$$85 : 18700 = 115 : x \\ \Rightarrow x = \left(\frac{18700 \times 115}{85} \right) = 25300.$$

Hence, S.P. = Rs. 25,300.

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(6) In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is $\frac{2}{3}$ of the number of students of 8 years of age which is 48. What is the total number of students in the school?

[A] 72

[B] 80

[C] 120

[D] 150

[E] 100

Answer : [E]

Explanation:

Let the number of students be x . Then,

Number of students above 8 years of age = $(100 - 20)\%$ of $x = 80\%$ of x .

$$\therefore 80\% \text{ of } x = 48 + \frac{2}{3} \text{ of } 48$$

$$\Rightarrow \frac{80}{100}x = 80$$

$$\Rightarrow x = 100.$$

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(7) Rajevee buys good worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will

have to pay for the goods.

[A] Rs. 6876.10

[B] Rs. 6999.20

[C] Rs. 6654

[D] Rs. 7000

Answer : [A]

Explanation:

$$\text{Rebate} = 6\% \text{ of Rs. } 6650 = \text{Rs. } \left(\frac{6}{100} \times 6650 \right) = \text{Rs. } 399.$$

$$\text{Sales tax} = 10\% \text{ of Rs. } (6650 - 399) = \text{Rs. } \left(\frac{10}{100} \times 6251 \right) = \text{Rs. } 625.10$$

$$\therefore \text{Final amount} = \text{Rs. } (6251 + 625.10) = \text{Rs. } 6876.10$$

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(8) If Rs. 782 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the first part is:

[A] Rs. 182

[B] Rs. 190

[C] Rs. 196

[D] Rs. 204

Answer : [D]

Explanation:

$$\text{Given ratio} = \frac{1}{2} : \frac{2}{3} : \frac{3}{4} = 6 : 8 : 9.$$

$$\therefore \text{1}^{\text{st}} \text{ part} = \text{Rs. } \left(782 \times \frac{6}{23} \right) = \text{Rs. } 204$$

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(9) The speed of a boat in still water is 15 km/hr and the rate of current is 3 km/hr. The distance travelled downstream in 12 minutes is:

[A] 1.2 km

[B] 1.8 km

[C] 2.4 km

[D] 3.6 km

Answer : [D]

Explanation:

$$\text{Speed downstream} = (15 + 3) \text{ kmph} = 18 \text{ kmph.}$$

$$\text{Distance travelled} = \left(18 \times \frac{12}{60} \right) \text{ km} = 3.6 \text{ km.}$$

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(10) Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:

[A] 16 hours

[B] 18 hours

[C] 20 hours

[D] 24 hours

Answer : [D]

Explanation:

Speed upstream = 7.5 kmph.

Speed downstream = 10.5 kmph.

∴ Total time taken = $\left(\frac{105}{7.5} + \frac{105}{10.5}\right)$ hours = 24 hours.